hw\_1\_render\_ready.R

edwin

2020-01-27

title: “hw\_1” author: “Edwin Rivas Meraz” date: “1/26/2020” output:

#'html\_document:  
 #'keep\_md: true

# Problems 1-6

x <- c(1,2,4)  
q <- c(x,x,8)  
#Problem 3  
x[4]

## [1] NA

#Problem 4  
s <- sd(q)  
s

## [1] 2.478479

#Problem 5  
paste("Edwin","Rivas","Meraz")

## [1] "Edwin Rivas Meraz"

#assign value to object "m"  
m <- 100  
ls()

## [1] "m" "q" "s" "x"

#Problem 6  
rm(m)  
ls()

## [1] "q" "s" "x"

rm(list=ls())  
ls()

## character(0)

oddcount <- function(x) {  
 print(x)  
 k <- 0  
 print(paste("k is initialized as",k))  
 for(n in x) {  
 print(paste("current x value being tested is",n))  
 if(n %% 2 == 1)  
 {  
 k <- k+1  
 print(paste(n,"is an odd number!"))  
 } else   
 {  
 print(paste(n,"is an even number!"))  
 }  
 print(paste("The final is currently",k))  
 }  
 print(paste("The final k is",k))  
 return(k)  
}  
#Problem 7  
oddcount (x <- c(1,2,3,7,9))

## [1] 1 2 3 7 9  
## [1] "k is initialized as 0"  
## [1] "current x value being tested is 1"  
## [1] "1 is an odd number!"  
## [1] "The final is currently 1"  
## [1] "current x value being tested is 2"  
## [1] "2 is an even number!"  
## [1] "The final is currently 1"  
## [1] "current x value being tested is 3"  
## [1] "3 is an odd number!"  
## [1] "The final is currently 2"  
## [1] "current x value being tested is 7"  
## [1] "7 is an odd number!"  
## [1] "The final is currently 3"  
## [1] "current x value being tested is 9"  
## [1] "9 is an odd number!"  
## [1] "The final is currently 4"  
## [1] "The final k is 4"

## [1] 4

#Problem 8  
evencount <- function(x) {  
 print(x)  
 k <- 0  
 print(paste("k is initialized as",k))  
 for(n in x) {  
 print(paste("current x value being tested is",n))  
 if(n %% 2 == 0)  
 {  
 k <- k+1  
 print(paste(n,"is an odd number!"))  
 } else   
 {  
 print(paste(n,"is an even number!"))  
 }  
 print(paste("The final is currently",k))  
 }  
 print(paste("The final k is",k))  
 return(k)  
}  
evencount (x <- c(1,2,3,7,9))

## [1] 1 2 3 7 9  
## [1] "k is initialized as 0"  
## [1] "current x value being tested is 1"  
## [1] "1 is an even number!"  
## [1] "The final is currently 0"  
## [1] "current x value being tested is 2"  
## [1] "2 is an odd number!"  
## [1] "The final is currently 1"  
## [1] "current x value being tested is 3"  
## [1] "3 is an even number!"  
## [1] "The final is currently 1"  
## [1] "current x value being tested is 7"  
## [1] "7 is an even number!"  
## [1] "The final is currently 1"  
## [1] "current x value being tested is 9"  
## [1] "9 is an even number!"  
## [1] "The final is currently 1"  
## [1] "The final k is 1"

## [1] 1

# 9

* Integrity of data
* Portability of the project
* Helps kickstart a project after a hiatus
* Helps introduce others to your project
* Helps present your data

# 10

* Treat data as read only
* Treat generated output as disposable
* Separate function definition and application

# 11

C:\Program Files\RStudio

# 12

/Users/edwin/Program Files/RStudio/

# 13 C:\\Users\\edwin\\Environmental Data Analysis\\ES207\_hw1  
  
# 14

C:\Users\edwin\Environmental Data Analysis

# 15

/Users/edwin/Environmental Data Analysis/ES207\_hw1 /Users/edwin/Environmental Data Analysis

# 18